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PASSWORD:

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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	4	APR 07	STN is raising the limits on saved answers
NEWS	5	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	6	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	7	APR 28	CAS patent authority coverage expanded
NEWS	8	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	9	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS	10	MAY 08	STN Express, Version 8.4, now available
NEWS	11	MAY 11	STN on the Web enhanced
NEWS	12	MAY 11	BEILSTEIN substance information now available on STN Easy
NEWS	13	MAY 14	DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS	14	MAY 15	INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS	15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS	16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:15:23 ON 02 JUN 2009

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:16:05 ON 02 JUN 2009  
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provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JUN 2009 HIGHEST RN 1151607-22-5  
DICTIONARY FILE UPDATES: 1 JUN 2009 HIGHEST RN 1151607-22-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

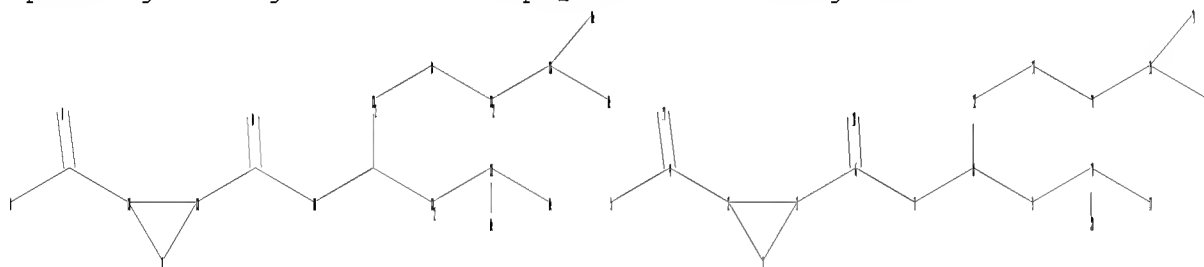
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10-553946genB.str



chain nodes :

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ring nodes :

1 2 3

chain bonds :

2-4 3-6 4-5 4-17 6-7 6-18 7-8 8-9 8-12 9-10 10-11 10-20 12-13 13-14  
14-15 15-16 15-19

ring bonds :

1-2 1-3 2-3

exact/norm bonds :

1-2 1-3 2-3 4-5 4-17 6-7 6-18 7-8

exact bonds :

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Match level :

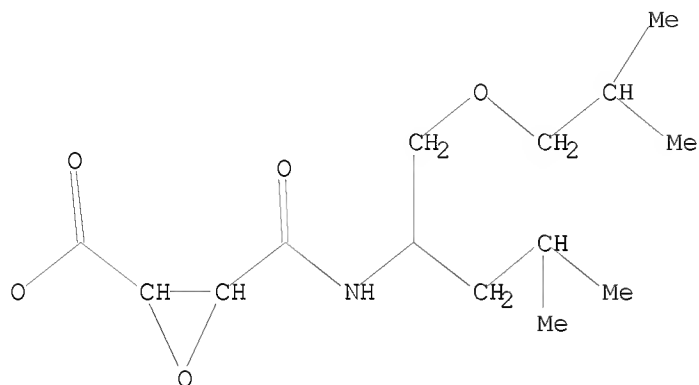
1:Atom 2:Atom 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
 18:CLASS 19:CLASS 20:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 15:18:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 443 TO ITERATE

100.0% PROCESSED 443 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

L2 19 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

186.84

187.06

FILE 'CAPLUS' ENTERED AT 15:18:09 ON 02 JUN 2009

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FILE COVERS 1907 - 2 Jun 2009 VOL 150 ISS 23  
FILE LAST UPDATED: 1 Jun 2009 (20090601/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12

L3 6 L2

=> s 13 and pd<20030800

23863500 PD<20030800

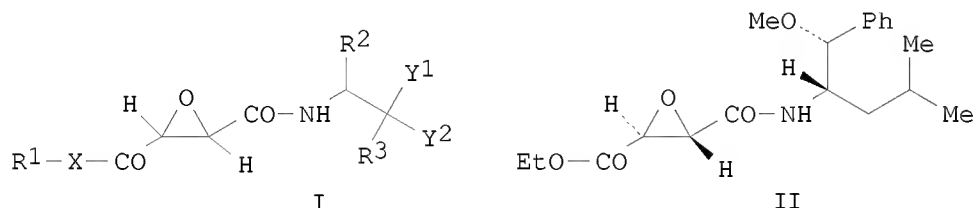
(PD<20030800)

L4 1 L3 AND PD<20030800

=> d 14 abs ibib hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

GI



AB Novel epoxysuccinamide derivs. (3-carboxyoxirane-2-carboxamides) represented by general formula (I) or physiol. acceptable salts thereof [wherein R1 and R3 are each H, alkyl, alkenyl, alkynyl, aryl, aralkyl, a heterocyclic group, or alkyl substituted with a heterocyclic group; R2 is alkyl, alkenyl, alkynyl, aryl, aralkyl, a heterocyclic group, or alkyl substituted with a heterocyclic group; X is O or NR4 (wherein R4 is H, alkyl, aryl, aralkyl, a heterocyclic group, or alkyl substituted with a heterocyclic group); Y1 is OR5, SR6 or NR7R8 (wherein R5, R6 and R7 are each H, alkyl, aryl, aralkyl, acyl, a heterocyclic group, or alkyl substituted with a heterocyclic group; and R8 is the same as defined as to R4); and Y2 is H or alkyl, or alternatively Y1 and Y2 may be united to form =O, =S, =N-R9 or =N-OR10 (wherein R9 and R10 are each the same as defined as to R4), with the proviso that the alkyl, aryl and heterocyclic groups defined as to R5 to R10 may each have one or more specific substituents and that the groups defined as to R1 to R10 and Y2 are each specified in the number of carbon atoms] are prepared These compds. inhibit bone absorption and activity of cathepsin L and B (cysteine protease) and are useful for the treatment of bone diseases such as osteoporosis, malignant hypercalcemia, and Paget's disease of bone, arthritis deformans and chronic articular rheumatism accompanied by unusual exasperation of cathepsin B and L activity, and muscular dystrophy and muscular atrophy related to cathepsin B and L. Thus, (2S,3S)-3-ethoxycarbonyloxirane-2-carboxylic acid was condensed with

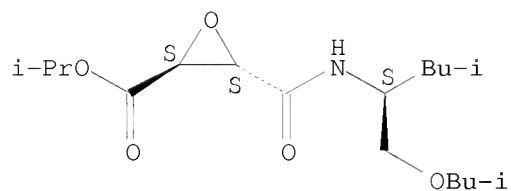
(S)-1-[(R)- $\alpha$ -methoxybenzyl]-3-methylbutylamine using N-hydroxysuccinimide and DCC in EtOAc at room temperature overnight to give the title compound (II). II at 15 mg/kg p.o. lowered serum calcium by 20.4% in rat.

ACCESSION NUMBER: 1999:184251 CAPLUS  
DOCUMENT NUMBER: 130:223163  
TITLE: Preparation of epoxysuccinamide derivatives for treatment of bone diseases and arthritis  
INVENTOR(S): Nomura, Yutaka; Takahashi, Toshihiro; Yoshino, Yasushi; Nishioka, Koichiro  
PATENT ASSIGNEE(S): Nippon Chemiphar Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 86 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9911640	A1	19990311	WO 1998-JP3983	19980904 <--
W: AU, CA, CN, JP, KR, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9889978	A	19990322	AU 1998-89978	19980904 <--
EP 1022276	A1	20000726	EP 1998-941728	19980904 <--
EP 1022276	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AT 241607	T	20030615	AT 1998-941728	19980904 <--
EP 1342720	A2	20030910	EP 2003-11154	19980904
EP 1342720	A3	20040211		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PT 1022276	T	20031031	PT 1998-941728	19980904
ES 2201524	T3	20040316	ES 1998-941728	19980904
US 6387908	B1	20020514	US 2000-508026	20000505 <--
US 20020091131	A1	20020711	US 2002-42994	20020108 <--
US 6689785	B2	20040210		
PRIORITY APPLN. INFO.:			JP 1997-257538	A 19970904
			EP 1998-941728	A3 19980904
			WO 1998-JP3983	W 19980904
			US 2000-508026	A3 20000505

OTHER SOURCE(S): MARPAT 130:223163  
IT 221144-15-6P 221144-16-7P 221144-17-8P  
221144-18-9P 221144-19-0P 221144-20-3P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of epoxysuccinamide derivs. as bone absorption inhibitors and cathepsin B and L inhibitors for treatment of bone diseases and arthritis)  
RN 221144-15-6 CAPLUS  
CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-methylpropoxy)methyl]butyl]amino]carbonyl]-, 1-methylethyl ester, (2S,3S)-(CA INDEX NAME)

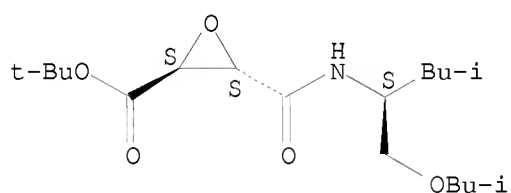
Absolute stereochemistry.



RN 221144-16-7 CAPLUS

CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-methylpropoxy)methyl]butyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S,3S)- (CA INDEX NAME)

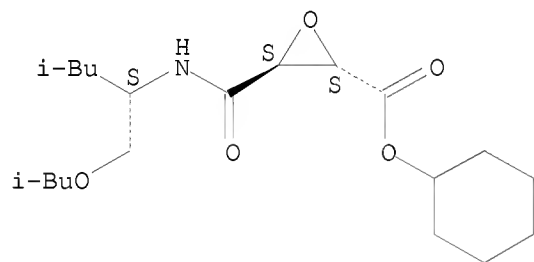
Absolute stereochemistry.



RN 221144-17-8 CAPLUS

CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-methylpropoxy)methyl]butyl]amino]carbonyl]-, cyclohexyl ester, (2S,3S)- (CA INDEX NAME)

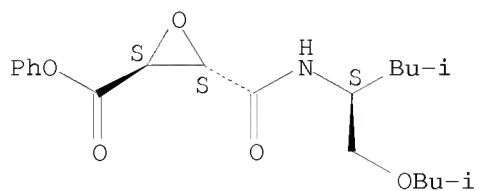
Absolute stereochemistry.



RN 221144-18-9 CAPLUS

CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-methylpropoxy)methyl]butyl]amino]carbonyl]-, phenyl ester, (2S,3S)- (CA INDEX NAME)

Absolute stereochemistry.

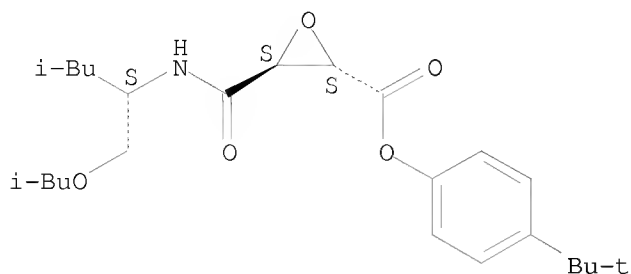


RN 221144-19-0 CAPLUS

CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-

methylpropoxy)methyl]butyl]amino]carbonyl]-, 4-(1,1-dimethylethyl)phenyl  
ester, (2S,3S)- (CA INDEX NAME)

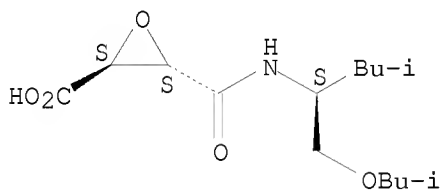
Absolute stereochemistry.



RN 221144-20-3 CAPLUS

CN 2-Oxiranecarboxylic acid, 3-[[[(1S)-3-methyl-1-[(2-methylpropoxy)methyl]butyl]amino]carbonyl]-, sodium salt (1:1), (2S,3S)-  
(CA INDEX NAME)

Absolute stereochemistry.



● Na

REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 15:32:07 ON 02 JUN 2009